Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A tilt control device for controlling inclination of a recording surface of an optical disc ~~(1)~~, ~~said~~ the tilt control device comprising:

~~a)~~ a tilt detector that is configured to detect the ~~detecting means (3) for detecting said~~ inclination of ~~said~~ the recording surface;

~~b)~~ a focus controller that is configured to generate ~~control means (7) for generating~~ a focus controlling output; and

~~c)~~ a focus actuator that is configured to control ~~actuating means (11) for controlling~~ a focusing state of an optical recording/reproducing beam based on ~~said~~ the focus controlling output,

characterized by

~~d)~~ a calibration element that is configured to calibrate~~calibrating means (10) for calibrating~~ an output offset of ~~said tilt detecting means~~ the tilt detector by using ~~said~~ the focus controlling output.

2. (Currently amended) A device according to claim 1, ~~characterized in that said calibrating means (10)~~ wherein the calibration element is arranged to measure a mean focus controlling output and to use ~~said~~ the mean focus controlling output for calibration.

3. (Currently amended) A device according to claim 1, ~~characterized in that said~~ wherein the focus controlling output is a focus voltage or a controller integrator output.

4. (Currently amended) A device according to claim 1, ~~characterized by~~ further including:

a sledge ~~(4)~~ for moving an optical pickup unit,

a tilt platform ~~(5)~~ for changing ~~said~~ the inclination of ~~said~~ the recording surface,

a tilt ~~adjusting means (9)~~adjuster for adjusting ~~said~~ the tilt platform ~~(5)~~, and

a tilt ~~control means (10)~~controller for controlling ~~said~~ the sledge ~~(4)~~ and ~~said~~ the tilt adjuster ~~adjusting means (9)~~.

5. (Currently amended) A device according to claim ~~5~~ 4, wherein ~~characterized in that said tilt control means (10)~~

the tilt controller is arranged to:

position ~~said~~ the sledge ~~(4)~~ at a radius corresponding to the rotation point between a tilt frame defined by ~~said~~ the tilt platform ~~(5)~~ and ~~said~~ the optical disc ~~(1)~~, ~~to~~

move ~~said~~ the sledge ~~(4)~~ outward over a first predetermined distance, ~~to~~

control ~~said tilt adjusting means (9)~~the tilt adjuster to adjust ~~said~~ the tilt platform ~~(5)~~ until the same output value of ~~said~~ the focus ~~control means (7)~~controller as obtained at ~~said~~ the radius corresponding to ~~said~~ the rotation point is obtained, and ~~to~~

move ~~said~~ the sledge ~~(4)~~ inward over a second predetermined distance, and ~~wherein said calibrating means (10)~~

the calibration element is arranged to use the output value of ~~said tilt detecting means (3)~~the tilt detector obtained at ~~said~~ the second predetermined distance as ~~said~~ the output offset used for ~~said~~ the optical disc ~~(1)~~.

6. (Currently amended) A device according to claim ~~6~~ 5, wherein ~~characterized in that said~~ the second predetermined distance substantially corresponds to the half of ~~said~~ the first predetermined distance.

7. (Original) An optical disc player comprising a tilt control device as claimed in claim 1.

8. (Currently amended) A tilt control method for controlling inclination of a recording surface of an optical disc ~~(1)~~, ~~said tilt control method~~ comprising ~~the steps of~~:

~~a)~~ generating a focus controlling output, ~~and~~

~~b)~~ controlling a focusing state of an optical recording/reproducing beam based on ~~said~~ the focus controlling output, and

~~characterized by~~

~~c)~~ calibrating an output offset of a tilt detector~~detecting means (3)~~ by using ~~said~~ the focus controlling output.

9. (Currently amended) A method according to claim ~~10~~ 8, wherein ~~characterized in that said~~

calibrating ~~step~~ the output comprises measuring a mean focus controlling output and using ~~said~~ the mean focus controlling output for calibration.

10. (Currently amended) A method according to claim ~~10~~ 8, ~~characterized in that said~~ wherein calibrating ~~step~~ the output comprises:

measuring ~~said~~ the focus controlling output at a rotation point between a tilt frame defined by a tilt platform ~~(5)~~ and ~~said~~ the optical disc ~~(1)~~,

adjusting ~~said~~ the tilt platform ~~(5)~~ until the same focus controlling output is obtained at a first predetermined distance outward from ~~said~~ the rotation point, and

using a focus controlling output obtained at a second predetermined distance inward from ~~said~~ the first predetermined distance as ~~said~~ the output offset of ~~said tilt detecting means (3)~~the tilt detector for ~~said~~ the optical disc ~~(1)~~.

11. (Currently amended) A method according to claim 10, wherein ~~characterized in that said~~

the second predetermined distance corresponds substantially to the half of ~~said~~ the first predetermined distance.

12. (Currently amended) A tilt control device for controlling inclination of a recording surface of an optical disc ~~(1)~~, ~~said tilt control device~~ comprising: ~~a) focus control means (7) for generating~~

a focus controller that is configured to generate a focus controlling output; ~~and b) focus actuating means (11) for controlling~~

a focus actuator that is configured to control a focusing state of an optical recording/reproducing beam based on ~~said~~ the focus controlling output; and, ~~characterized by c) tilt control means (10) for adjusting~~

a tilt controller that is configured to adjust a tilt frame based on measurements of the controlling output of ~~said focus control means (7)~~the focus controller at at least two different radial positions at two tilt frame positions.

13. (Currently amended) A device according to claim ~~14~~ 12, wherein ~~characterized in that said~~

the focus controlling output is a focus voltage or a controller integrator output.

14. (Currently amended) A device according to claim ~~14~~ 12, ~~characterized by~~ further including:

a sledge ~~(4)~~ for moving an optical pickup unit,

a tilt platform ~~(5)~~ for changing ~~said~~ the inclination of ~~said~~ the recording surface,

a tilt ~~adjusting means (9)~~adjuster for adjusting ~~said~~ the tilt platform ~~(5)~~,

wherein ~~said~~

the tilt ~~control means (10)~~controller is arranged to control ~~said~~ the sledge ~~(4)~~ and ~~said~~ the tilt ~~adjusting means (9)~~adjuster so as to perform ~~said~~ the measurements.

15. (Currently amended) A device according to claim ~~17~~ 14, ~~characterized in that said~~ wherein the tilt ~~control means (10)~~controller is arranged to:

position ~~said~~ the sledge ~~(4)~~ at ~~said~~ the at least two different radial positions, ~~to~~

control ~~said~~ the tilt ~~adjusting means (9)~~adjuster to adjust ~~said~~ the tilt platform ~~(5)~~ to ~~said~~ the two predetermined tilt frame positions, ~~to~~

measure ~~said~~ the focus controlling output at ~~said~~ the at least two different radial positions at ~~said~~ the two different radial tilt positions, and ~~to~~

adjust ~~said~~ the tilt platform ~~(5)~~ based on the mean radial tilt obtained for ~~said~~ the two predetermined tilt frame positions in between ~~said~~ the at least two different radial positions.

16. (Currently amended) An optical disc player comprising a tilt control device as claimed in claim ~~14~~ 12.

17. (Currently amended) An optical disc player as claimed in claim ~~19~~ 16, wherein ~~said~~

the optical disc player is a DVD player.

18. (Currently amended) A tilt control method for controlling inclination of a recording surface of an optical disc ~~(1)~~, ~~said tilt control method~~ comprising ~~the steps of~~:

~~a)~~ generating a focus controlling output, ~~and~~

~~b)~~ controlling a focusing state of an optical recording/reproducing beam based on ~~said~~ the focus controlling output, and

~~characterized by~~

~~c)~~ adjusting a tilt frame based on measurements of ~~said~~ the controlling output at at least two different radial positions at two predetermined tilt frame positions.

19. (Currently amended) A method according to claim ~~21~~ 18, wherein ~~characterized in that said~~

adjusting ~~step~~ the tilt frame comprises measuring a mean focus controlling output and using ~~said~~ the mean focus controlling output for adjustment.

20. (Currently amended) A method according to claim ~~21~~ 18, wherein ~~characterized in that said~~ adjusting ~~step~~ the tilt frame comprises:

measuring ~~said~~ the focus controlling output at ~~said~~ the at least two different radial positions at ~~said~~ the two different radial tilt positions, and

adjusting ~~said~~ the tilt platform ~~(5)~~ based on the mean radial tilt obtained for ~~said~~ the two predetermined tilt frame positions in between ~~said~~ the at least two different radial positions.

21. (New) A device according to claim 2, further including:

a sledge for moving an optical pickup unit,

a tilt platform for changing the inclination of the recording surface,

a tilt adjuster for adjusting the tilt platform, and

a tilt controller for controlling the sledge and the tilt adjuster.

22. (New) A device according to claim 21, wherein

the tilt controller is arranged to:

position the sledge at a radius corresponding to the rotation point between a tilt frame defined by the tilt platform and the optical disc,

move the sledge outward over a first predetermined distance,

control the tilt adjuster to adjust the tilt platform until the same output value of the focus controller as obtained at the radius corresponding to the rotation point is obtained, and

move the sledge inward over a second predetermined distance, and

the calibration element is arranged to use the output value of the tilt detector obtained at the second predetermined distance as the output offset used for the optical disc.

23. (New) An optical disc player comprising a tilt control device as claimed in claim 21.

24. (New) A method according to claim 9, wherein calibrating the output comprises:

measuring the focus controlling output at a rotation point between a tilt frame defined by a tilt platform and the optical disc,

adjusting the tilt platform until the same focus controlling output is obtained at a first predetermined distance outward from the rotation point, and

using a focus controlling output obtained at a second predetermined distance inward from the first predetermined distance as the output offset of the tilt detector for the optical disc.

25. (New) A method according to claim 24, wherein

the second predetermined distance corresponds substantially to the half of the first predetermined distance.

26. (New) An optical disc player comprising a tilt control device as claimed in claim 14.

27. (New) A method according to claim 19, wherein adjusting the tilt frame comprises:

measuring the focus controlling output at the at least two different radial positions at the two different radial tilt positions, and

adjusting the tilt platform based on the mean radial tilt obtained for the two predetermined tilt frame positions in between the at least two different radial positions.